

CLAIMS

1. Use, for killing fungi, of a composition comprising a potassium salt of N'-hydroxy-N-cyclohexyldiazenium
5 oxide (KHDO) and a diluent.
2. Use according to claim 1, wherein the KHDO is the sole fungicidally active component of the composition.
- 10 3. Use according to claim 1, wherein the composition additionally comprises another fungicidally active component selected from:
alcohols, isothiazolones, activated halogen compounds, formaldehyde release compounds, phenolic compounds,
15 aldehydes, acids and esters, biphenyls, urea derivatives, O-acetals, O-formals, N-acetals, N-formals, benzamidines, phthalimides, pyridine derivatives, quaternary ammonium and phosphonium compounds, amines, amphoteric compounds, dithiocarbamates, compounds containing active oxygen and
20 mixtures of any of these.
4. Use according to claim 3, wherein the other fungicidally active component is selected from at least one of 2-bromo-2-nitropropane-1,3-diol, 1,2-
25 benzisothiazol-3(2H)-one, 1,3,5-tris-(2-hydroxyethyl)-1,3,5-hexahydrotriazine, 5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one, tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)-imidazo[4,5-d]imidazole-2,5(2H,3H)-dione, 1,3-dimethyl-5,5-dimethylhydantoin and
30 a polyvinylamine.

5. A method of killing fungi, which method comprises administering to the fungi a composition comprising a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and a diluent.

6. A method according to claim 5, wherein the KHDO is the sole fungicidally active component of the composition.

7. A method according to claim 6, wherein the composition additionally comprises another fungicidally active component selected from:
alcohols, isothiazolones, activated halogen compounds, formaldehyde release compounds, phenolic compounds, aldehydes, acids and esters, biphenyls, urea derivatives, O-acetals, O-formals, N-acetals, N-formals, benzamidines, phthalimides, pyridine derivatives, quaternary ammonium and phosphonium compounds, amines, amphoteric compounds, dithiocarbamates, compounds containing active oxygen and mixtures of any of these.

8. A method according to claim 7, wherein the other fungicidally active component is selected from at least one of 2-bromo-2-nitropropane-1,3-diol, 1,2-benzisothiazol-3(2H)-one, 1,3,5-tris-(2-hydroxyethyl)-1,3,5-hexahydrotriazine, 5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one, tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)-imidazo[4,5-d]imidazole-2,5(2H,3H)-dione, 1,3-dimethyl-5,5-dimethylhydantoin and a polyvinylamine.

9. Use, for combating microorganisms, of a composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) another additional microbicidally active component selected from:
5 alcohols, isothiazolones, activated halogen compounds, formaldehyde release compounds, phenolic compounds, aldehydes, acids and esters, biphenyls, urea derivatives, O-acetals, O-formals, N-acetals, N-formals, benzamidines, phthalimides, pyridine derivatives, quaternary ammonium
10 and phosphonium compounds, amines, amphoteric compounds, dithiocarbamates, compounds containing active oxygen and mixtures of any of these.

10. Use according to claim 9, wherein the active
15 component (B) is selected from at least one of 2-bromo-2-nitropropane-1,3-diol, 1,2-benzisothiazol-3(2H)-one, 1,3,5-tris-(2-hydroxyethyl)-1,3,5-hexahydrotriazine, 5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one, tetrahydro-1,3,4,6-
20 tetrakis(hydroxymethyl)-imidazo[4,5-d]imidazole-2,5(2H,3H)-dione, 1,3-dimethyl-5,5-dimethylhydantoin and a polyvinylamine.

11. Use according to claim 9 or claim 10, whereby the
25 microorganisms are killed.

12. A method of combating microorganisms, which method comprises administering to the microorganisms a composition comprising (A) a potassium salt of N'-
30 hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) another additional microbicidally active component selected from:

alcohols, isothiazolones, activated halogen compounds, formaldehyde release compounds, phenolic compounds, aldehydes, acids and esters, biphenyls, urea derivatives, O-acetals, O-formals, N-acetals, N-formals, benzamidines, phthalimides, pyridine derivatives, quaternary ammonium and phosphonium compounds, amines, amphoteric compounds, dithiocarbamates, compounds containing active oxygen and mixtures of any of these.

- 10 13. A method according to claim 12, wherein the active component (B) is selected from at least one of 2-bromo-2-nitropropane-1,3-diol, 1,2-benzisothiazol-3(2H)-one, 1,3,5-tris-(2-hydroxyethyl)-1,3,5-hexahydrotriazine, 5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one, tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)-imidazo[4,5-d]imidazole-2,5(2H,3H)-dione, 1,3-dimethyl-5,5-dimethylhydantoin and a polyvinylamine.

- 20 14. A method according to claim 12 or claim 13, wherein the microorganisms are killed.

15. A microbicidal composition comprising (A) a potassium salt of N'-hydroxy-N-cyclohexyldiazenium oxide (KHDO) and (B) another additional microbicidally active component selected from:
- alcohols, isothiazolones, activated halogen compounds, formaldehyde release compounds, phenolic compounds, aldehydes, acids and esters, biphenyls, urea derivatives, O-acetals, O-formals, N-acetals, N-formals, benzamidines, phthalimides, pyridine derivatives, quaternary ammonium and phosphonium compounds, amines, amphoteric compounds,
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dithiocarbamates, compounds containing active oxygen and mixtures of any of these.

16. A composition according to claim 15, wherein the
5 active component (B) is selected from at least one of 2-bromo-2-nitropropane-1,3-diol, 1,2-benzisothiazol-3(2H)-one, 1,3,5-tris-(2-hydroxyethyl)-1,3,5-hexahydrotriazine, 5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one, tetrahydro-1,3,4,6-
10 tetrakis(hydroxymethyl)-imidazo[4,5-d]imidazole-2,5(2H,3H)-dione, 1,3-dimethyl-5,5-dimethylhydantoin and a polyvinylamine.

17. A composition according to claim 15 or claim 16,
15 wherein the respective amounts of the components (A) and (B) in the composition, by weight of the total amount of (A) and (B), are (A) 1 to 99 wt% and (B) 1 to 99 wt%.

18. A composition according to claim 15, wherein the
20 said respective amounts of (A) and (B) are (A) 40 to 60 wt% and (B) 40 to 60 wt%.

19. A composition according to any one of claims 15 to
18, in the form of a paste, emulsion or solution.

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20. A composition according to claim 19, having a pH of
at least 7.

21. A composition according to claim 20, having a pH of
30 from 8 to 12.